

# GRIP STRENGTH AND MUSCLE FATIGUE

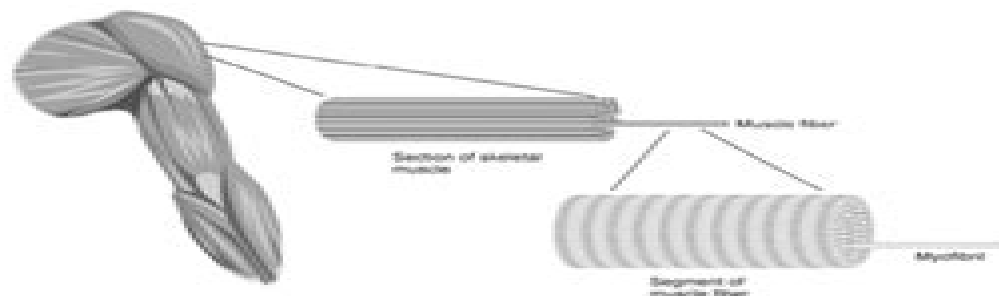
## STANDARDS

- **3.2.7B, 3.2.10B, 3.2.12B** – Evaluate experimental information; describe and interpret information using qualitative and quantitative skills.
- **3.3.7B, 3.3.10B, 3.3.12B** – Describe and examine the chemical and structural basis of living organisms.



## INTRODUCTION

Skeletal muscle is composed of bundles of individual muscle fibers (see Figure 1) and has unique properties which allow it to respond to stimuli by contracting. Individual muscle fibers respond to a stimulus (e.g., nerve impulse) with an all or none response, meaning the muscle fiber contracts to its maximum potential or not at all. Once a muscle has contracted, relaxation must occur before it can contract again. There are three basic types of muscle fibers: *slow fibers*, *fast fibers*, and *intermediate fibers*. Fast fibers contract quickly but for a relatively short duration. Slow fibers respond less rapidly, but are capable of a more sustained contraction. The strength of contraction of a whole



*Figure 1*

muscle is dependent on the number of muscle fibers involved.

Muscle fatigue occurs with prolonged or repetitive use of a muscle group, and is familiar to anyone who has ever carried a heavy suitcase or walked up a long flight of stairs. With fatigue, there is a sense of weakness and even discomfort, which eventually leads one to discontinue the activity that is causing it. The mechanism of fatigue is multifactorial and not fully understood, but is felt to involve the central nervous system, peripheral nervous system, muscle units and individual muscle fibers. At the level of muscle cells, depletion of energy stores may be important.

Regular exercise improves muscular function and delays the onset of fatigue, thus increasing the amount and duration of work that can be performed. Exercise is important for optimal athletic performance, prevention of injury in athletes and non-athletes, and

# Grip Strength And Muscle Fatigue Lab Answers

**Jason Adam Gonzalez**



## **Grip Strength And Muscle Fatigue Lab Answers:**

**Scientific and Technical Aerospace Reports**, 1985      Textbook of Physiology for Medical Students, 2nd Edition - E-Book Harminder Singh, Itika Singh, Mridul Yadav, 2022-11-16 Textbook of Physiology for Medical Students 2nd Edition E Book      *Grip Strength, Forearm Muscle Fatigue and the Response to Hand Grip Exercise in Rheumatoid Arthritis* Catherine A. Speed, 1998      *Further Adventures with Grip Strength Tests* Ralph H. Blakeman, 1936      **An Examination of the Effect of Mental Fatigue on Grip Strength** Jason Adam Gonzalez, 2010      **Grip Strength** Kevin B DiBacco, 2024-02-23 In his insightful new book *Grip Strength* author Kevin B DiBacco spotlights the critical importance of grip strength as a harbinger of total body power and future health As the masterful coordination between small muscles and tendons that allows the hands to grasp objects grip strength serves as more than just the strength of our palms and fingers DiBacco explains how grip provides a window into overall muscular and physiologic reserve across ages Citing recent studies the book details how tracking grip strength changes over time predicts risks of developing mobility limitations chronic diseases dementia and even early mortality By enabling readers to easily test and monitor their own grip DiBacco provides actionable strategies involving lifestyle factors and targeted training to uphold this vital indicator of strength essential for actively engaging in occupational recreational and daily activities long into the aging process Endorsed by Dr Aqib Saleem Medical Surgeon Pakistan      The Immediate Effects of Manual Massage on Power Grip Performance Following Maximal Exercise in Healthy Adults Carol P. Brooks, 2004 Purpose Massage is often used as an adjunct to exercise in sports and therapeutic settings but its effects on muscle performance have not been conclusively determined The purpose of this study was to assess the effects of using manual massage to improve power grip performance immediately following maximal exercise in healthy adults Methods Fifty two volunteer massage school client staff faculty and students were randomized to receive either a 5 minute forearm hand massage of effleurage and friction to either the dominant hand or non dominant hand side 5 minutes of passive shoulder and elbow range of motion or 5 minutes of non intervention rest Power grip measurements baseline post exercise and post intervention were performed on both hands using a commercial hand dynamometer These measurements preceded and followed 3 minutes of maximal exercise using a commercial isometric hand exerciser that produced fatigue to 60% of baseline strength Results After 3 minutes of isometric exercise power grip was consistently fatigued to at least 60% of baseline with recovery occurring over the following 5 minutes Statistical analyses involved single factor repeated measures analyses of variance with Bonferroni a priori tests that demonstrated statistically significant differences in intervention and natural muscle recovery effects between groups Massage had a greater effect than no massage or placebo on grip performance after fatigue especially in the non dominant hand group Natural muscle recovery was shown to be a significant factor in grip performance after exercise with less natural muscle recovery occurring in the massage groups and thus suggesting that massage had a greater effect on overall grip performance in these two groups Conclusions Manual

massage to the forearm and hand after maximal exercise produced greater effects than non massage on post exercise grip performance At five minutes post exercise massage was shown to have the greater effect on grip performance and this supported the hypothesis that manual massage to the muscles of grip would have an immediately positive and greater effect on performance as shown by the physiological response In this sample of health adults natural muscle recovery of grip strength was not equal on both sides a finding that suggests that natural muscle recovery is not the same between the dominant and non dominant hand however neither the results of this study nor a review of the literature provides a basis for any definitive conclusion regarding the imbalance The present data do support the use of a five minute manual massage to assist immediate grip performance after fatigue in healthy subjects The recommendation is made that future studies be done to determine the differences in natural muscle recovery between an individual s dominant and non dominant hands following exercise and the effects of response to massage

Systematic Review of Hand Grip Strength and Pilot Study to Measure Hand Grip Strength in Participants Receiving Hematopoietic Stem Cell Transplant Cindy A Sayre, 2015 Background Despite aggressive fall prevention programs rates of falls in hospitals have increased from 2.7 falls per thousand patient days in 2001 Halfon Eggli Van Melle de Souza et al 2012 Klepin et al 2013 In addition studies of HGS have taken place in both outpatient and inpatient settings Cantarero Villanueva et al 2012 Norman et al 2010 This dissertation is composed of two papers The first paper is a systematic review of the use of Hand Grip Strength HGS in selected clinical studies The purpose of this review was to delineate methods and identified challenges in studies of HGS by dynamometry in participants who had oncologic diagnoses or were hospitalized for any diagnosis The second paper reports results of a pilot study that was conducted in a sample of patients undergoing myeloablative HSCT in an inpatient setting The purposes of the pilot study were to 1 describe changes in muscle strength as measured by daily HGS measurements 2 describe relationships between selected laboratory values Hematocrit HCT Hemoglobin HGB Absolute Neutrophil Count ANC and HGS during the course of hospitalization 3 determine the feasibility and acceptability of daily HGS measurements and 4 compare relative timing of detection of change in muscle strength by HGS measurement and nursing assessment of the participant s need for assistance with mobility

Methods The first paper describes a systematic review of the literature that was conducted focused on identifying studies related to HGS measurement in hospitalized patients and those with oncologic diagnoses in any care setting Khan Kunz Klejin Antes 2003 Medline CINAHL and Web of Science databases were searched yielding 23 pertinent articles The articles were then reviewed for quality to ensure that the study designs were appropriate to produce results that were free of bias and could be interpreted accurately Results were summarized in a table and were used to design a study protocol for a HGS pilot study The second paper details the results of the pilot observational study For this study we used a prospective repeated measures design and enrolled 45 participants hospitalized for HSCT HGS was measured on admission and daily until discharge from the hospital or study withdrawal Medications opioid benzodiazepine physical therapy and laboratory

measures of HGB HCT and ANC were recorded as was nurse assessment of need for assistance with mobility A single item survey question developed for study purposes was used to assess feasibility and acceptability of HGS testing from the participant perspective Results Twenty three articles were reviewed for the first paper Analysis of these articles found that techniques for measuring HGS appeared to be similar but not identical across care settings This included specific design elements of the studies including positioning selection of hand for testing attempts per trial and data included for analysis Challenges of HGS testing in hospital settings included determining when participants were awake and alert high percentages of ineligible participants due to complications of care and interruptions in testing for provision of routine care For the observational study 2nd paper we enrolled 45 participants undergoing HSCT Thirty three 73% participants completed the study with 20 61% followed pre and post transplant peri transplant and 13 39% followed after admission for complications Nineteen 57% participants experienced 20% or greater decline in HGS during hospitalization Nine 45% of the peri transplant group experienced decline during the conditioning phase In the peri transplant group there was a small positive statistically significant relationship between both HCT and HGB  $p = 0.01$  and HGS In the complication group HGS was negatively correlated with ANC  $p = 0.02$  HGB  $p = 0.007$  and HCT  $p = 0.001$  Patients receiving allogeneic HSCT were more likely to exhibit strength loss of 20% than those receiving autologous HSCT  $p = 0.02$  Gender was highly correlated with HGS with males measuring 13.9 20 Kg higher HGS readings than females  $p = 0.001$  Nurses documented participant s need for assistance with mobility for 8 19 42% of participants with 20% strength loss as assessed by dynamometry although this nursing assessment preceded 20% strength decline in 4 participants and was noted days after the loss in 4 patients Participants found the testing to be relatively easy with a mean score of 1.4 SD 0.73 on a 5 point scale in the peri transplant group and a mean score of 1.8 SD 1.3 in the complication group higher scores indicate greater difficulty Testing of HGS took 7 minutes SD 1.95 to complete Conclusion It is feasible to test HGS in participants who are hospitalized or have oncologic diagnoses in outpatient or inpatient care settings Based on the literature review a standardized protocol for HGS measurement in participants undergoing HSCT was developed and used for the pilot study A majority of participants experienced clinically significant strength decline during HSCT with a subgroup declining during the conditioning phase Participants who received allogeneic HSCT were more likely to experience clinically important strength loss than those who received an autologous transplant Nurses failed to note the participant s need for assistance with mobilization a majority of the time Participants found the testing to be relatively easy to participate in however data collection was impacted by issues common to hospitalized participants such as nausea fatigue and feelings of being overwhelmed This was the first study to our knowledge to examine HGS daily in participants receiving HSCT There appears to be a gap between the timing of clinically important decline of strength and nurse recognition of participants need for assistance with mobility The daily use of HGS by dynamometry could be an important tool to assist direct care providers in the evaluation of strength in hospitalized patients

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